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Deutero-Compounds, by I. B. Rabinovich, et al, 10pp.

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pp 108-111.

NRCC- TT-875

Sci - Physics
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RUSSIAN to FRENCH
OTS TT-62-28741

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Electrical Conductivity of Concentrated Aqueous
Solutions of LiCl, NaCl and KCl at High Temperature,
by I. M. Rodnyanskiy, N. S. Galinker.

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INSDOC-TL572

ATS RJ-858

Sci -
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Zero-Charge (Isoelectric Point) Potentials
of Copper and Chromium, by E. A. Ukhov, A. I.
Levin, 9 pp.

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CIA/FID X-2212

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NLL M. 3914

Sci - Physics
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4 pp.

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ATS/RJ-2538

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Sci
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Sci Mus Lib No 56/2312

Sci - Physics

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Coacervates and Enzymes. Protein-
Carbohydrate Coacervates and Beta-
Amylase. by T. N. Evreinova, et al.
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Vol CV, No 1, 1955, pp 137-140.
NASA TT F-10,685

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Mar 67

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Use of Continued Fractions for Discovering
Solutions of Integral Equations, by I. M. Stasin,
8 pp.

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AEC Tr 2689

SLA R-1627

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On Nonlinear Oscillations in Systems With Varying
Parameters, by V. O. Kononenko, 6 pp.

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Scientific - Physics

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May 56 CTS/dez

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R. I. Gerasimova, I. I. Gurevish, A. P. Mishakova,
and L. V. Surkova, 12 pp.

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AEC Tr-254⁵

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Sci - Chemistry

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SLA 61-17498
Consultants Bureau

\$3.50 37,284

Scientific - Physics

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The Dispersion of the Speed of Sound in Carbon
Disulphide, by V. A. Molchanov, I. L. Fabelinskiy,

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pp 248-249,

UKSM T.1689

Sci - Physics

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Sep 57

The Diffusion of Chromium in Nickel Base
Solid Solutions, by P. L. Cruzin, G. B.
Fyedorov

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AEC Tr 2432

Scientific - Chemistry; Min/Metals
Apr 56 CTS/dex

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Faunistically new Cephalopods for the
Far-Eastern Seas of USSR, by

I. I. Akimushkin,

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Minis of Def T No 3373

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London

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Geog

Apr 66

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Isotope Exchange of Sulphur Atoms in Accelerating
and Vulcanizing Materials in the Presence of
Bis(2,2,6,6-tetramethyl-1-piperidin-1-yl) Diphenylguanidine and Phenyl- β -naphthyl-
amine by G. A. Blokh, E. A. Golubkova, K. V.
Kurskaya. 7 p.

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Sci Tr C nter RT 4229

Scientific Chemistry

Dec 56 CTS

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Synthesis of Acid Chlorides of Silicon-Substituted
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Petrov

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No 2, 1955, pp 282-285.

Assoc Tech Sv RJ-485

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CSIRO GB 39

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Apr 62

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Kinetics of Thermal Decomposition of n-Propyl
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G. B. Sergeyev, G. A. Kapralova, 9 pp. UNCL

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Sci - Chem
Mar 59

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Scientific - Geophysics

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Spin and Parity of the γ -Meson, by I. I. Gurevich,
A. P. Mishakova, 5 pp.

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AEC Tr 2840

Sci - Physics
Apr 57 OTS/dex

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Liquid-Vapor Phase Diagram of the He³-He⁴ System,
by B. N. Eselason, N. G. Beronzyuk,

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~~XXXXX~~ No 3, p 454-457

37,285 SLA 61-17497
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CCT 12818
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Scientific - Physics

Aug 1956

The Effect of Low Temperatures on the Lubricating
Capacity of Mineral Oils, by R. M. Matveyevakiy

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Sci - Engineering, Fuels

Jan 57 CTS

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Direct Synthesis of Polysilane Chlorides From
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Sadykhzade

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Sci - Chemistry
Jan 57 CTS

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On the Question of Chemical Combinations Between
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Latysheva, 1 p.

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IC or HLA 59-10016

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Feb 59

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EOC INTERNAL USE ONLY

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Sci - Minerals/Metals, Chemistry

May 1956

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The Temperature Independent Paramagnetism
of Potassium Hexachloro-Osmate, by Y. K. Syrkin,
V. N. Belova, 2 pp.

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Sci - Chemistry

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Daily Dynamics of Chlorophyll Content in Potato
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3 pp.

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SLA Tr R-1341

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Nutrition of Diptera Tenebrionidae by Means of
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Sci -
July 1967

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~~Micro-Organisms~~ Micro-Organisms as Fish Food, by
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Jun 58

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Canada
Vancouver Station
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On Oscillations in Nonlinear Systems With
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NDF K-132

Sci
Nov 61

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Study of Sky Brightness in the Region Around
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UNCLASSIFIED

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Dir Sci Info Sv
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T 274 R

Sci - Astron
Aug 58

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Bakulina, I. N. and Ionov, N. I.
CONCERNING THE ENERGY OF ELECTRON
AFFINITY OF HALOGEN ATOMS, tr. by George N
Kasachkoff and George F. Hill. 9 May 62 [7]p. 4 refs.
[AMC] (Redstone) Trans-nr 22-62.
Order from OTS or SLA \$1.10

62-24798

Trans. of Akademiya Nauk SSSR. Doklady, 1955,
v. 105, no. 4, p. 680-682.

DESCRIPTORS: *Potassium compounds, *Halides,
Chlorides, Bromides, Iodides, Fluorides, Mass
spectroscopy, *Electrons, Electron capture, Energy.

The energy of the electron affinity of fluorine atoms
was proven to be considerably less than that of chlorine
atoms and differs only by a few hundredths of an elec-
tron volt from the energy of the electron affinity of
bromine atoms. (Author)
(Physics--Molecular, TT, v. 9, no. 8)

62-24798

I. Bakulina, I. N.
II. Ionov, N. I.
III. AMC(Redstone) Trans-22-62
IV. Army Missile Command,
Redstone Arsenal, Ala.

Office of Technical Services

Angular Distribution of Fragments in Uranium²³⁸
Fission Induced by Neutrons of Various Energies,
by A. A. Varfolomeyev, A. S. Romantseva, V. M.
Kutukova, 3 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR,
Vol CV, 1955, pp 693-695.

ARC Tr 2386

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Scientific - Physics

Mar 56 CTS/DEX

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Electron-Optical Images of Ferromagnetic Domains,
by G. V. Spivak, N. G. Kuvshinov, I. S. Sbitnikova,
T. N. Dombrovskaya. (AF-717347)

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CV,
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*F-TS-9119/V

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SLA 61-17496

\$3.50

Scientific - Physics

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Aug 1956

H-TS-RJ-589

Luminescence and Light Absorption of Diamond, by
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Sci - Physics
Feb 1957 CTS/dex

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On Investigating Unstable Complex Compounds in
Solution by Their Absorption Spectra, by
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AEC Tr 2486

Sci - Physics

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Vol CV, No 4, 1955, pp 744-745.

Assoc Tech Sv RJ-527
\$5.95 (\$1.45)

- Chemistry
Apr 1957 CTS/dex

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The Nature of the Nitrogen-Containing Substances
in Sedimentary Deposits of the Ancient Caspian
and the Apsheron Formations, by N. T. Shabarova.

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Assoc Tech Sv
\$4.65 Tr RJ-754

Sci - Chemistry
Aug 57

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Mass Transfer in the Process of Film-Rectification-
Laminar Vapour Flow, by V. A. Malyusov, et al.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CV, No 4,
1955, p 779.

NLL M. 2754

OTS 61-2334

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Sci - Phys

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A New Mineral Ferroselite, by E. Z.
Buryanova and A. I. Konkov, 5 pp.

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Sci

Jul 58

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Biogenetic Elements in the Soil Solutions
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Murman, by E. N. Chernovskaya.

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SCI - Geophys

Mar 62

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Canada
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The Strengthening of Glass by Tempering, by I. I.
Kitaygorodskiy, V. L. Indenborm, 4 pp.

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Sci
Jan 60
Vol 2, No 7

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The Hypotensive Function of the Pancreas, by S. V. Andreyev,

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CV, No 4, 1955, pp 848-851.

ATS RJ-2280

Sci - Med

May 60

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The Effect of Mechanical Agitation at Different
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Salmon, by A. I. Smirnov.

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M QH301, C273, No 230
NCC - C-3240

Sci - Biol
Sep 60

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On the Problem of Lithium, Beryllium and
Deuterium Content in the Solar Atmosphere, by
I. S. Shklovskiy, 4 pp.

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AEC Tr 2757

Sci - Geophysics
Jun 57

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SLA 1719

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Ferromagnetics, by N. S. Akulov, 7 pp.

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Scientific - Nuclear Physics
Jun 56 CTS/dex

Fine Structure of the Basic X-Ray K-Absorption Spectrum of
Titanium in Some Dielectric Materials, by E. Ye. Vaynshteyn,
I. B. Staryy, et al, 5 pp.
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JPRS 23510

Sci-Mar & Met
Mar 64

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Pion Pair Production by Gamma Radiation and Pion
Bremsstrahlung, by Yu. A. Vdovin, 5 pp.

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AEC Tr 2833

Sci - Physics

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Mar 57/CTS

An Effective Potential for the Pion-Nucleon
Interaction, by V. R. Velibekov, V. A.
Meshcheryakov, 4 pp.

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Vol CV, 1955, pp 951-954.

AEC Trans 2412 SLA 61-17495

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Sci - Nuclear Physics

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The Production of Negative Ions by Charge
Exchange, by V. M. Dukelsky. UNCL

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1955, pp 955-957.

CCT-807B

Sci - Electronics
Sep 59

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Magnetic Contrast in an Electron Mirror and the Observation of Ferromagnetic Domains, by G. V. Spivak, I. N. Prilezhayeva, V. K. Azovtsev, 6 pp.

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Sci - Physics
Dec 56 CTS

Sci 10-2008

Application of the Photoresistance of CdS in
Combination With Phosphors as a Detector for
Cobalt-60 Gamma Rays, by S. D. Margolin, I. G.
Fakidov,

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CV, 1955,
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AEC Tr-4000

Sci - Chem

May 60

117,363

Tetra-1-Pyrryl Borate Salts, by V. A. Susanova,
L. P. Borokina, 5 pp.

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IC or SLA 59-10027.

Sci - Chemistry
Feb 59

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Inhibition and Acceleration of the Cracking of
Paraffin Hydrocarbons by Additions of Tetramethyl
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7 pp.

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Sci - Physics

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Role of Diffusion in the Phenomenon of Adhesion of
High Polymers, by S. S. Voyutskiy, A. I. Shapovalova,
A. P. Pisarenko, 3 pp.

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No 5, 1955, pp 1000-1002.

Sci - Physics
Nov 57

SLA R-939
Sci Mus Lib Tr 57/1526
NLL m. 2920
55, 090

Mechanical Properties of Mixtures of Carbon
Black With Vaseline Oil, by V. A. Kargin,
G. L. Slonimskiy, Ye. V. Restsova, 6 pp.

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No 5, 1955, pp 1007-1009.

OTS 60-16656

Sci

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30 Mar 62

The Nature of the Slow Sorption of Gases by
Solids, by N. I. Tenkin, N. V. Kul'kova, 8 pp.

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No 5, 1955, pp ~~101~~ 1021-1023.

Sci Tr Center
RT-3955

39,146

Sci - Chemistry
Sep 56 CTB/dax

RUSSIAN to FRENCH
075 77-62-28605

S-124/60

(NY-3594).

On the Effect of the Charge of the Substance
and the Dielectric Constant of the Solvent Upon
the Velocity of Hydrogen Exchange, by A. I.
Shatenstein, Ye. A. Yakovleva, 7 pp.

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JPRS 2634

Sci - Chem
May 60

116,682

(FDD 27763)

Influence^e of Change in the Structure of Bacterial
Protoplasts on Respiration and Inclusion of Labeled
Glycine, by A. I. Oparin, N. S. Gel'man, I. G. Zhukov,
8 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CV,
No 5, Moscow, 1955, pp 1036-1039.

S.L.A.P.-377

CIA/FDD U-8642

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Sci - Chemistry, Biochemical; Biology

Aug 56 CTS/DEX

Malyusov, V. A., Umnik, N. N., and Zharoronkov, N. M.

MASS TRANSFER IN PROCESSES OF FILM RECTIFICATION - TURBULENT VAPOR FLOW (Massoobmen v Protsesse Plenochnoi Rektifikatsii - Turbulentnyi Potok Para). [1961] 3p. 8 refs. (DSIR LLU) M. 2748.

Order from OTS or SLA \$1.10

61-23320

Unedited trans. of Akademiya Nauk SSSR. Doklady 1955, v. 105, no. 5, p. 1057ff.

DESCRIPTORS: Vapors, Turbulent flow, Separation, *Mass transfer.

The equation $h_{og} = 11.1d^{0.64}Re^{0.23}Pr^{0.67}$ is recommended for calculating the rectification process in the range of Reynolds numbers $Re = 100$ to $15,000$. (See also 59-18628, 61-23315) (Chemistry--Physical, TT, v. 7, no. 7)

61-23320

- I. Malyusov, V. A.
- II. Umnik, N. N.
- III. Zharoronkov, N. M.
- IV. DSIR LLU M. 2748

Office of Technical Services

The Role of Tissue Sulphydryl Groups in the Formation of Spreading Depression of the Bio-Electrical Activity of the Cerebral Cortex, by ~~Va~~, Buresh (J. Bures), Kh. S. Koshtoyants, (~~Assoc. Member of the Academy of Sciences, USSR~~) 8 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CV, No 5, 1955, pp 1118-1120.

NIH Tr No 1-10

OTS-TT-64-19498
43,219

Sci - Medicine
Jan 1957 CTS/dex

The Motion of Small Solid Particles in a Free
Air Stream, by A. P. Chernov.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CV, No 6,
1955, p 1170.

MLL M. 2744

OTS 61-23324/
180,033

Sci - Phys

Jan 62

The Change in the Rotation of the Sun Caused by
Matter Falling into the Sun under the Poynting-
Robertson Effect by V. S. Safronov, 9 pp.

RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol CV,
No 6, 1955, pp 1184-1187.

ATIC NCL-78/1.

Sci
Geophys
Dec 60

184,071

Concerning the Electrical Conductivity
and the Self-diffusion Coefficient of
the Ag Ion in AgI, by V.I. Baranovskiy,
et al.

RUSSIAN, per, Doklady Akad. Nauk, SSSR
Vol. 105, 1955, pp. 1188-1191

*CFSTI TT 70-57019

Sci/phys
Feb 70

Mass Differences of Elementary Particles, by A.
Brodsky, D. Ivanenko, N. Korst.

RUSSIAN, 1/2 thrice-no per, Dok Ak Nauk SSSR, Vol CV,
No 5, p 1192. - 1195

37,287

Consultants Bureau

\$3.50

Scientific - Physics

Aug 1956

SLA 61-17494

Some Principles in the Structure of the Basic X-Ray
K-Absorption Edge of Atoms in Crystals of Alkali Halides,
by E. Ye. Vaynshteyn, R. L. Barinakiy, et al, 6 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CV, No 6, 1955,
pp 1196-1199.

JPRS 23510

Sci-Mar & Met
Mar 64

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Electric Resistance and its Variation in Weak
Magnetic Fields for ~~XXX~~ Iron-Nickel Alloys in
the Low ($14-90^\circ$), by E. Kondorskiy, I. Ozhigov,
6 pp.

RUSSIAN, per, Doklady Akad. Nauk SSSR, Vol CV,
No 6, 1955, pp 1200-1203.

S.L.A. Tr R-197

Sci - Engineering
May 57

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Nuclear Interaction of π^- Mesons in Copper, by
N. M. Kocharyan, G. S. Saakyan, M. T. Aivazyan,
Z. A. Kirakosyan, and A. S. Aleksanyan.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR,
Vol CV, 1955, pp 1204-1207.

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